coster group

PERSONAL AUTOMATION

WebGarage

System Requirements

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	Recommendation
RAM	8-16GB
Operating System	Windows, Linux, Mac
Interface	Gigabit LAN
Flash	32GB SSD
CPU	x86-64 CPU (Intel Xeon, Intel Core, AMD Ryzen)
CPU Power	2GHz+

Le specifiche tecniche vanno comunque adeguate alla dimensione del progetto o dei progetti. Con un elevato numero di punti storicizzati e/o elevato numero di logiche si consiglia di dimensionare coerentemente la CPU e RAM per una miglior fruizione.

The most important resource for server sizing is RAM. For any medium to large project, you must properly tune your JVM heap size.
A good rule of thumb is to plan for 1GB to 2GB of heap for every 10K points.
Heap size more than 1.5GB will need to run a 64-bit JVM (the actual max heap size of a 32-bit JVM will vary slightly). 85% of Java Heap consumption is roughly our recommended max before considering to upgrade the amount of space.
Open JDK is recommended but you can also use Java 11

Another important aspect to consider is that the historian is mostly limited by I/O performance (speed of disk drive). Using a SSD will likely have a significant performance boost for reading and writing history data. Disk space is typically not a issue for projects due to the Folio's highly efficient compression techniques. Analysis of projects has shown an average about 1.5 bytes per timestamp sample which equates to about 51KB per year per point for 15min interval data.

Depending on the apps/features you use (and don't use) will have a significant impact on performance and how much horsepower you will need to run smoothly. Running multiple projects on a single host consumes more overhead; 100 little projects of 100 points are more resource consuming than a single 10K point project

The technical specifications should be adapted to the size of the project or projects. With a high number of historicized points and/or high number of logics, it is recommended to consistently size the CPU and RAM for better use.